

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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(FOR KEY SEE REVERSE)

A recent display of Soviet machine tools in Moscow included the following exhibits:

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1. A sixteen-inch-center lathe has a bed 24 to 36 inches long and a high speed up to about 5,000 rpm. It is equipped with an electrical gear for stopping, starting, and reversing and is definitely a good, modern machine. A cutting tool employs ceramics fastened to a steel holder. An impressive demonstration was given by cutting at a speed between 3,000 and 5,000 rpm.
2. A fully automatic, electronic copy lathe has an automatic adjustment of speeds and feeds. The lathe appears to be too light. It would be good for jobs of half an inch, but [] would be considered an attachment. The lathe does not appear to be as good as an equivalent machine []. A six-station type of multistatic vertical boring machine is similar to the [] vertical boring machine. It is equipped, however, with six stations like the [] multistatic, although it is lighter in construction. During a demonstration it almost broke down. Two crankshaft turning lathes were being tested. These machines do not appear to be up to [] standards.
3. A two-blade turning machine is similar to [] models, except that the blade is vertical and the tool goes in horizontally. Camming appears to be effected on the fixture which holds the blade. The blade is straight-backed rather than curved-backed and is not shrouded at both ends, but has a fir tree (sic) at one end only. The blade is about nine to twelve inches long and appears to be made of stainless steel.

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25 YEAR RE-REVIEW

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